

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB/003252

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | WO 01/44950 A (SWIFTEYE INC)<br>21 June 2001 (2001-06-21)<br>page 18, line 3 - line 7<br>page 19, line 8 - line 25<br>-----    | 1,52                  |
| X          | US 2001/045451 A1 (HSU JOE ET AL)<br>29 November 2001 (2001-11-29)<br>paragraph [0032] - paragraph [0035]<br>figure 4<br>----- | 1,52                  |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

13 October 2004

Date of mailing of the international search report

05/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
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Authorized officer

Chabot, P

## INTERNATIONAL SEARCH REPORT

International Application No.

PC 03/04390

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G07F7/10 G06F17/60 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G07F G06F

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Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | US 5 590 197 A (CHEN JAMES F ET AL)<br>31 December 1996 (1996-12-31)<br>the whole document  | 1-38                  |
| X          | EP 1 229 476 A (SONY COMP ENTERTAINMENT<br>AMERIC) 7 August 2002 (2002-08-07)<br>column 6, line 29 -column 10, line 16;<br>claims 32,48; figure 1                           | 1-38                  |
| X          | US 5 689 565 A (SPELMAN JEFFREY F ET AL)<br>18 November 1997 (1997-11-18)<br>column 26, line 13 -column 26, line 55;<br>figures 1,2<br>column 5, line 20 -column 6, line 35 | 1-38                  |
|            | ---<br>-/-  |                       |

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\*Z\* document member of the same patent family

Date of the actual completion of the international search

10 March 2004

Date of mailing of the international search report

19/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Ruester, H-B

## INTERNATIONAL SEARCH REPORT

International Application No.

P 88 03/04390

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | EP 1 022 638 A (IBM)<br>26 July 2000 (2000-07-26)<br>page 4, paragraph 17 -page 6, paragraph 25; claims 8,23; figure 1<br>---  | 1-38<br>N             |
| X          | WO 01 50429 A (AMERICAN EXPRESS TRAVEL RELATE) 12 July 2001 (2001-07-12)<br>page 9, paragraph 3 -page 10, paragraph 3; claim 12; figures 1,2<br>---  | 1-38<br>N             |
| X          | FR 2 793 903 A (TELEDIFFUSION FSE)<br>24 November 2000 (2000-11-24)<br>page 31, line 25 -page 33, line 10; claim 1; figure 4<br>---  | 1-5,<br>18-20<br>N    |
| A          | US 6 449 651 B1 (DORFMAN ALEXANDER ET AL)<br>10 September 2002 (2002-09-10)<br>column 4, line 65 -column 7, line 52; figures 1,2<br>---  | N                     |
| Y          | EP 1 223 524 A (AUTHENTURE INC)<br>17 July 2002 (2002-07-17)<br>column 10, line 54 -column 13, line 18; claims 5,18<br>column 22, line 40 -column 24, line 37<br>---   | 1-38<br>N             |
| Y          | US 2002/129250 A1 (KIMURA AKIRA)<br>12 September 2002 (2002-09-12)<br>page 2, paragraph 19 -page 4, paragraph 49; claims 14,16,46; figure 6<br>---   | 1-38<br>N             |
| A          | FR 2 749 424 A (CKD SA)<br>5 December 1997 (1997-12-05)<br>the whole document<br>---   | 1-5<br>N              |
| A          | KEUL M: "DONGLES: HARDWARE SCHUTZT SOFTWARE"<br>ELEKTRONIK, FRANZIS VERLAG GMBH. MUNCHEN, DE,<br>vol. 39, no. 10, 11 May 1990 (1990-05-11),<br>pages 82-84,86, XP000117036<br>ISSN: 0013-5658<br>page 82 -page 84<br>--- | 18,26<br>N            |
| X          | EP 0 715 242 A (NIPPON TELEGRAPH & TELEPHONE) 5 June 1996 (1996-06-05)<br>the whole document<br>-----  | 1-38<br>N             |

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB 03/04371

CLASSIFICATION OF SUBJECT MATTER  
C 7 G06F17/60 G07F7/10 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06F G07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No: |
|------------|--|-----------------------|
|------------|--|-----------------------|

|   |   |      |
|---|---|------|
| X | EP 1 076 279 A (HEWLETT PACKARD CO)<br>14 February 2001 (2001-02-14)<br>column 2, line 11 -column 2, line 47;<br>claims 10,18; figure 14<br>column 3, line 48 -column 3, line 51<br>column 7, line 48 -column 7, line 53<br>column 12, line 34 -column 12, line 44<br>column 29, line 12 -column 30, line 38<br>column 39, line 15 -column 39, line 22<br>column 51, line 25 -column 51, line 28<br>--- | 1-55 |
| X | EP 1 229 476 A (SONY COMP ENTERTAINMENT<br>AMERIC) 7 August 2002 (2002-08-07)<br>column 5, line 43 -column 12, line 49;<br>claim 17; figure 1<br>---<br>-/-   | 1-55 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "\*" document member of the same patent family

Date of the actual completion of the international search

19 April 2004

Date of mailing of the international search report

19. 04 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
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Fax: (+31-70) 340-3016

Authorized officer

Ruester, H-B

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB98/04371

## (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | US 6 449 651 B1 (DORFMAN ALEXANDER ET AL)<br>10 September 2002 (2002-09-10)<br>column 5, line 23 -column 9, line 32;<br>claims 2,4; figure 1<br>---                               | 1-20                  |
| X          | US 5 754 646 A (WILLIAMS THOMAS H ET AL)<br>19 May 1998 (1998-05-19)<br>column 3, line 47 -column 4, line 30;<br>claim 1; figure 1<br>column 6, line 14 -column 8, line 48<br>--- | 1,2,<br>7-10,20       |
| X,P        | EP 1 288 768 A (SIEMENS AG OESTERREICH)<br>5 March 2003 (2003-03-05)<br>the whole document<br>-----   | 1-55                  |

## INTERNATIONAL SEARCH REPORT

International Application No.

/GB 03/04377

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L29/06 H04L12/22 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F G07F H04L

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EPO-Internal, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No.                 |
|------------|--|---------------------------------------|
| X          | US 2002/069364 A1 (DOSCH FRANZ A)<br>6 June 2002 (2002-06-06)                      | 1,2,5-8,<br>16-19,<br>21-36,<br>38-42 |
| A          | paragraph '0023! - paragraph '0040!<br><br>---<br>-/--                             | 3,4,<br>9-15,20,<br>37                |

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\*S\* document member of the same patent family

Date of the actual completion of the international search

25 March 2004

Date of mailing of the international search report

31/03/2004

Name and mailing address of the ISA

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Fax (+31-70) 340-3016

Authorized officer

Raposo Pires, J

## INTERNATIONAL SEARCH REPORT

International Application No

/GB 03/04377

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.       |
|------------|---|-----------------------------|
| X          | US 5 778 071 A (AMORUSO VICTOR P ET AL)<br>7 July 1998 (1998-07-07)<br><br>figure 1E<br>abstract<br>column 2, line 23 -column 4, line 11<br>column 5, line 65 -column 6, line 11<br>column 7, line 37 - line 61<br>column 8, line 56 -column 18, line 9 | 1,2,5-8,<br>16-36,<br>38,39 |
| A          | -----<br>FR 2 793 575 A (SCHLUMBERGER SYSTEMS & SERVICE) 17 November 2000 (2000-11-17)<br>abstract<br>figure 1<br>claim 1<br>page 2, line 15 -page 3, line 2<br>page 5, line 19 -page 6, line 2<br>page 7, line 3 - line 24<br>-----                    | 3,4,<br>9-15,37,<br>40-42   |
| A          | WO 00 31608 A (ERICSSON TELEFON AB L M)<br>2 June 2000 (2000-06-02)<br>page 2, line 13 - line 28<br>page 6, line 6 - line 16<br>page 7, line 24 -page 9, line 18<br>-----   | 1-42                        |

10/531429

JC12 Rec'd PCT/IN 15 APR 2005



INVESTOR IN PEOPLE

Application No: GB0323836.7  
 Claims searched: 120, 121 & 133

Examiner: Nigel Hanley  
 Date of search: 11 October 2004

# Patents Act 1977 Further Search Report under Section 17

## Documents considered to be relevant:

| Category | Relevant to claims | Identity of document and passage or figure of particular relevance   |
|----------|--------------------|--|
| X        | 120, 121 & 133     | WO01/33936 A3<br>PRIVACOMP - See whole document. Note restriction of access to a transaction database allowing a third party access only to the data they are entitled to. |
| X        | 121, 122 & 133     | US 6134549 A<br>SHOWCASE - See whole document - Note the use of views to restrict access to data for a corporate entity.   |
| X        | 121, 122 & 133     | US 5644710 A<br>ETA - See whole document. Note especially file system of Fig 8a which gives access to files only to those who have the correct access.                     |
| X        | 121, 122 & 133     | EP 0927921 A3<br>CASIO - See whole document especially Figs 1-7 & 15-21. Note the restriction of access of system users to specific data groups.                           |

## Categories:

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## Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>W</sup> :

G4A

Worldwide search of patent documents classified in the following areas of the IPC<sup>07</sup>

G06F

The following online and other databases have been used in the preparation of this search report

ONLINE: WPI, EPODOC, JAPIO





INVESTOR IN PEOPLE

Application No: GB0323836.7

Examiner: Nigel Hanley

Claims searched: 1-109, 125-131, 136 &amp; 137

Date of search: 21 May 2004

**Patents Act 1977: Search Report under Section 17****Documents considered to be relevant:**

| Category | Relevant to claims             | Identity of document and passage or figure of particular reference  |
|----------|--------------------------------|---|
| X        | 1, 52, 101, 125 & 137 at least | WO 2003/084175 A1<br>BARRACUDA - See whole document. Note use of a registered telecommunications portable device in authenticating transactions.  |
| X,Y      | 1, 52, 101, 125 & 137 at least | WO 2002/091316 A1<br>ACTIVCARD - See whole document. Note use of a Personal Security Device for coupling to a client which manages an authentication transaction with a remote computer system.     |
| X,Y      | 1, 52, 101, 125 & 137 at least | "Trusted Transaction Roaming" - Pgs 13 - 17, Issue 1/2003 - SECURE. (An Infineon Technologies Publication) - Note the concept of providing secure network access for E-Commerce from mobile phones. |
| X,E      | 1, 52, 101, 125 & 137 at least | GB 2394327 A<br>VODAFONE - See whole document. Note use of transaction manager as an interface between a users request for a service and in an authentication process.                              |
| Y        | 17-35 & 66-84                  | WO 2002/079960 A1<br>ENTERPRISES - See whole document. Note arrangement of device for coupling to a PC for trusted transactions involving a smart card.   |

**Categories:**

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**Field of Search:**Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>W</sup> :

G4A



INVESTOR IN PEOPLE

Application No: GB0323836.7  
Claims searched: 122-124 & 134

Examiner: Nigel Hanley  
Date of search: 11 October 2004

**Patents Act 1977**  
**Further Search Report under Section 17**

**Documents considered to be relevant:**

| Category | Relevant to claims | Identity of document and passage or figure of particular relevance   |
|----------|--------------------|--|
| X        | 122-124 & 134      | US 6229806 B1<br>MOTOROLA - See whole document. Note generation of a data packet containing authentication information unique to a user device. Note also host id being contained in the packet. |
| X        | 122-124 & 134      | US 2002/0087473 A1<br>HARIF - See whole document especially Fig 3. Note contents of packet payload including security permissions and identifiers.   |
| X        | 122-124 & 134      | US 6154839 A<br>VPNET - See whole document. Note use of a packet incorporating a user identifier.  |

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|   |   |   |  |
|---|---|---|--|
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Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>W</sup>:

G4A

Worldwide search of patent documents classified in the following areas of the IPC<sup>07</sup>

G06F; H04L

The following online and other databases have been used in the preparation of this search report

ONLINE: WPI, EPODOC, JAPIO



Application No: GB0323836.7  
Claims searched: 110-119, 132 & 135

Examiner: Nigel Hanley  
Date of search: 11 October 2004

**Patents Act 1977**  
**Further Search Report under Section 17**

**Documents considered to be relevant:**

| Category | Relevant to claims       | Identity of document and passage or figure of particular relevance  |
|----------|--------------------------|---|
| X        | 110-119,<br>132 &<br>135 | WO 00/67415 A3<br>FIRST DATA - See whole document. Note generation of a token to a user by a first computer for use on a second computer.                                 |
| X        | 110-119,<br>132 &<br>135 | US 6339423 A<br>ENTRUST - See whole document. Note provision of a token to a user by a first domain system when user requires access to a second domain system.           |
| X        | 110-119,<br>132 &<br>135 | US 6161182 A<br>LUCENT - See whole document. Note use of Token Generating Server to authenticate a user and issue a token for access to a remote system or server.        |
| X        | 110-119,<br>132 &<br>135 | WO 02/039237 A3<br>IBM - See whole document. Note creation of a user token for an authenticated user to allow a sign on to a second remote service.                       |
| X        | 110-119,<br>132 &<br>135 | EP 1315064 A1<br>SUN - See whole document. Note issue of a token for use in accessing other services to a user after authentication of a userid and password combination. |

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| & | Member of the same patent family  | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |

**Field of Search:**



INVESTOR IN PEOPLE

Application No: GB 0224228.7  
Claims searched: 1-33

Examiner: Nigel Hanley  
Date of search: 10 December 2002

## Patents Act 1977 : Search Report under Section 17

### Documents considered to be relevant:

| Category | Relevant to claims | Identity of document and passage or figure of particular relevance |   |
|----------|--------------------|--|---|
| X        | 1,18,26 at least   | US 6226744 B1  | AT&T - See whole document. Note the method of authenticating a users access to restricted information using access codes and a smart card.  |
| X        | 1,18,26 at least   | WO 2001/082167 A1  | PHILIPSON - See whole document especially Figs 3-5 and Page 7 Line 8 - Page 9 Line 31. Note the use of a smart card to store information which is used to authenticate the user with a remote server. |
| X        | 1,18,26 at least   | WO 2001/026061 A1  | AB TRYGGIT - See whole document. Note storage of code words in a mobile phone for use in authenticating transactions by the subscriber.   |
| X        | 1,18,26 at least   | EP 1043648 A2  | SUN - See whole document. Note use of smart cards in an authentication network. Note especially use of multiple authentication modules.   |
| X        | 1,18,26 at least   | US 6230002 B1  | ERICSSON - See whole document especially Fig 2 & 3 and Column 6 Lines 30- Column 8 Line 17. Note generation of a password from a SIM for use in an authentication procedure over a network.           |
| X        | 1,18,26 at least   | US 5590199 A   | KRAJEWSKI - See whole document. Note method of authenticating a user to access services in a network using a smart card.  |

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|   |   |   |  |
|---|---|---|--|
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| & | Member of the same patent family  | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |



INVESTOR IN PEOPLE

**Application No:** GB 0224228.7  
**Claims searched:** 1-33

**Examiner:** Nigel Hanley  
**Date of search:** 10 December 2002

**Field of Search:**

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>T</sup>:

G4A

Worldwide search of patent documents classified in the following areas of the IPC<sup>T</sup>:

G06F

The following online and other databases have been used in the preparation of this search report:

WPI, EPODOC, JAPIO



INVESTOR IN PEOPLE

Application No: GB 0307248.5  
Claims searched: 1-51

Examiner: Nigel Hanley  
Date of search: 17 September 2003

## Patents Act 1977 : Search Report under Section 17

### Documents considered to be relevant:

| Category | Relevant to claims  | Identity of document and passage or figure of particular relevance |  |
|----------|---------------------|--|--|
| X        | 1, 23 & 46 at least | US 6003135 A   | SPYRUS - See whole document especially Column 14 Line 3-Column 22 Line 9. Note modular device for connection to a PC which incorporates a security device. Note also use of PIN numbers as part of authentication process. |
| X        | 1, 23 & 46 at least | EP 1271435 A2  | HEWLETT PACKARD- See whole document especially paragraphs 0013-0024. Note use of smartcard associated with a mobile phone to authenticate a transaction with a remote service.   |
| X        | 1, 23 & 46 at least | EP 0427465 A3  | AT&T - See whole document especially Fig 6 and Column 12 Line 31 - Column 13 Line 29. Note authentication of user by smart card. Note also keypad and display device for responding to a challenge from the host.          |
| X,E      | 1, 23 & 46 at least | EP 1282026 A2  | TISS -See whole document. Note transfer of information from a smart card to a SIM and subsequent use of SIM to authenticate a mobile phone user to a remote service.   |
| X        | 1, 23 & 46 at least | WO 2001/082167 A1  | HANSSON - See whole document especially Figs 8 & 9. Note device for holding a smartcard or SIM and infra-red port for contact with a data apparatus.   |
| X        | 1, 23 & 46 at least | EP 1172776 A3  | ED VISION - See whole document. Note smartcard having numbered formulae stored upon it for access by a server in authentication process.   |
| X        | 1, 23 & 46 at least | FR 2830107 A1  | GEMPLUS - See whole document especially Figs 1,4,8 and 10. Note SIM card being stored in a electronic key which can be inserted into a computer to authenticate a user.  |

Categories:

**Application No:** GB 0311729.8

**Examiner:** Henrik Ebbesen  
Jensen

**Claims searched:** 1-40

**Date of search:** 1 September 2003

## Patents Act 1977 : Search Report under Section 17.

### Documents considered to be relevant:

| Category | Relevant to claims | Identity of document and passage or figure of particular relevance |  |
|----------|--------------------|--|--|
| X, A     | X: 1<br>A: 8       | US 6226744 B   | (MURPHY) See abstract, fig. 3, col 3, 1 6-29, col 6, 1 22-32   |
| A        |                    | WO 00/002407 A   | (NOKIA) See fig. 1, 2 and p 3, 1 30 - p 5, 1 35.   |
| P, A     |                    | WO 02/091316 A   | (ACTIVCARD) See fig. 1, 2, 4a-5, p 3, 1 11-19, p 6, 1 30 - p 7, 1 36, p 9, 1 11 - p 11, 1 10 and p 12, 1 1 - p 15, 1 32. |
| A        |                    | WO 00/070533 A   | (SCHLUMBERGER) See abstract.   |
| A        |                    | WO 01/080525 A   | (SUN) See abstract, p 7, 1 12-21 and claim 1-10.   |

### Categories:

|   |   |   |  |
|---|---|---|--|
| X | Document indicating lack of novelty or inventive step   | A | Document indicating technological background and/or state of the art.  |
| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention.          |
| & | Member of the same patent family  | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |

### Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>6</sup>:

Worldwide search of patent documents classified in the following areas of the IPC<sup>7</sup>:

G06F, G07F, H04L

The following online and other databases have been used in the preparation of this search report:

WPI, EPODOC